CERES Systems Engineering Committee

Members: Maria Mitchum, NASA, DMO
           Sandy Nolan, SAIC
           Jill Travers, DAAC

Charter: Serve as a forum for resolving issues which affect more than one
           working group. Report to CERES Data Management Team

March 11, 1998 1:00 pm

Bob Ignacio, Tina Rogerson, and Randy Dye, representatives from the DAAC Product Generation Group, attended this CERES SE meeting. Bob Ignatio gave the SE Committee a copy of his DPREP Automation paper.

The following system issues were discussed:

1. After some discussion, it was decided that the Configuration Code number cannot be automatically accessed from the CM Database during manual operations. We will have to use 000 for the Subsystem Configuration Code portion, the first 3 digits of the 6 digit number, as long as we are using the Manual Configuration Code. The Reprocessing Number, the second 3 digits of the 6 digit number, for ValidationR2 will start at 001. Jill will change the PCF input if necessary to match the required CC code. After this is tested, the SE committee will put out a software bulletin or send email about how the input file and/or PCF generator is to be formatted.

2. Bob Ignatio reported that Christine and Chris Harris had decided to wait until both the ephemeris and attitude data is available before processing DRPEP. After a predetermined number of days, if the attitude data doesn't show up, then the ephemeris will be processed.

3. Maria said that for TRMM Quicklook files, a header file is received that contains enough information to run Quicklook. (AM will not have an ASCII file to parse. It will be in binary.)

4. Maria would like a table that would keep track of which L0 and Quicklook files have entered the system. This table would be populated first, and then other Production tables could be populated.

5. Maria announced that she is trying to get feedback on a table for System Level Requests (to install new versions of the Toolkit, CERESlib, etc.) Priority will be added in the Request Table. For reprocessing requests, the following question will be asked: Can you easily do this processing at the SCF? This will be primarily for reprocessing that will not flow through the entire system.

6. Jill gave a status of the new CM procedure. " Tammy is flying through the deliveries" Sukdee and Brian are doing the testing with Codine before systems are promoted to production.

7. Operations Manuals are needed. They need to be at a level of detail where no other contact is needed between the operators and the CERES Subsystems. Common error messages should be included. For now, it was suggested that we add appendices to the Test Plan which contain this information. We also need a list of the error messages that come from CERESlib. Subsystems need to write an error message appendix which contains the error messages, error code numbers, exit codes, and possible solutions to fix errors.

8. Jill reported the following problems found in SSI&T:

  A. Subsystems also need to document under which conditions, all output files in PCF are not produced. Subsystems also need to document when a Subsystem can run with missing files or parameters. If a subsystem needs the day before and day after, can it run without it?

  B. Parameters on the command line are not always documented.

9. Erbelike will run daily with composite snowmaps and then the entire month will be run after the snow map for that month is produced.

10. Jill is writing production procedures for each Subsystem. Jill will send examples of the Production Procedures to the SE Committee.

11. Maria will modify her paper to include which PGEs are dependent on which output.

Meeting adjourned 2:15. skn.